DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named in	nventor, I her	eby declare that:		
My residence, post	office addres	ss and citizenship are as stated	i below next to my name;	
I believe I am the and joint inventor patent is sought or	(if plural na	umes are listed below) of the su	one name is listed below) or an original, first ubject matter which is claimed and for which a	
CODING AND STOR	AGE OF PHON	NETICAL CHARACTERISTICS O	F STRINGS	
the specificati	on of which	n (check one)		
is attached he	ereto.			
X was filed on	21 December	2000 as International Business	Machines Docket No. DE9-1999-0085	
and was amended on		(if applicable)		
I hereby state specification,	that I have including t	e reviewed and understand the claims, as amended by	the contents of the above identified any amendment referred to above.	
I acknowledge t this applicatio	he duty to n in accord	disclose information which dance with Title 37, Code	ch is material to the patentability of of Federal Regulations, Section 1.56.	<u>:</u>
or \$365(b) of a of any PCT Inte United States, foreign applica	ny foreign rnational a listed belo tion for pa	application(s) for patent application which designation ow and have also identified tent or inventor's certified	le 35, United States Code, \$119(a)-(d) tor inventor's certificate, or [365(a ted at least one country other than the below, by checking the box, any ficate, or PCT International ne application on which priority is	a)
Prior Foreign Appli	cation(s)		Priority Claimed	đ
99125463.2	EP	21 / 22		
(Number)	(Country)	21/December/1999 (Day/Month/Year Filed)	X Yes N	0
(Number)	(Country)	(Day Month (Year Will)	YesN	0
(Number)	(Country)	(Day/Month/Year Filed)		
(Number)	(Country)	(Day/Month/Year Filed)	Yes No	0
I hereby claim the	benefit under	35 U.S.C. §119(e) of any United	d States provisional application(s) listed below	w.
(Application Number)	(Filing Date)	-	
(Application Number)	(Filing Date)	-	

DELARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

I hereby claim the benefit under 35 U.S.C. §120 of any United States Application(s), or §365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States, or PCT International application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose information material to the patentability of this application as defined in 37 CFR [1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
statements made on infor statements were made wit are punishable by fine o	mation and belief are believen the knowledge that willful or imprisonment, or both, under that willful false statements	my own knowledge are true and that all ed to be true; and further that these false statements and the like so made er Section 1001 of Title 18 of the may jeopardize the validity of the
agent(s) to prosecute the Trademark Office connect	named inventor I hereby app is application and transact ed therewith (list name and	oint the following attorney(s) and/or all business in the Patent and registration number).
(Reg. 26,914), Edward A. Redmond, Jr. (Reg. 18,75 39,966), Douglas W. Camer Underweiser (Reg. 46,134 32,053), Louis J. Percel (Reg. 43,303), Robert P. and Derek S. Jennings (F	Pennington (Reg. 32,588), J 63), Richard M. Ludwin (Reg. con (Reg. 31,596), Louis P. H 1), Stephen C. Kaufman (Reg. 10 (Reg. 33,206), Robert M. Tassinari, Jr. (Reg. 36,030	(Reg. 35,082), Christopher A. Hughes John E. Hoel (Reg. 26,279), Joseph C. 33,010), Marc A. Erlich (Reg. Lerzberg (Reg. 41,500), Marian 29,551), Daniel P. Morris (Reg. Trepp (Reg. 25,933), Gail H. Zarick D), Paul J. Otterstedt (Reg. 37,411)
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DELARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

I hereby claim the benefit under 35 U.S.C. §120 of any United States Application(s), or §365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States, or PCT International application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose information material to the patentability of this application as defined in 37 CFR []1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
statements made on informati statements were made with th	on and belief are bel e knowledge that will aprisonment, or both, willful false stateme	of my own knowledge are true and that allieved to be true; and further that these ful false statements and the like so made under Section 1001 of Title 18 of the ents may jeopardize the validity of the
POWER OF ATTORNEY: As a nam agent(s) to prosecute this a Trademark Office connected t	application and transa	appoint the following attorney(s) and/or act all business in the Patent and and registration number).
Reg. 26,914), Edward A. Pen Redmond, Jr. (Reg. 18,753), 39,966), Douglas W. Cameron (Underweiser (Reg. 46,134), S	nnington (Reg. 32,588) Richard M. Ludwin (Re (Reg. 31,596), Louis P Stephen C. Kaufman (Re (Reg. 33,206), Robert ssinari, Jr. (Reg. 36,	one (Reg. 35,082), Christopher A. Hughes O, John E. Hoel (Reg. 26,279), Joseph C. eg. 33,010), Marc A. Erlich (Reg. P. Herzberg (Reg. 41,500), Marian eg. 29,551), Daniel P. Morris (Reg. M. Trepp (Reg. 25,933), Gail H. Zarick ,030), Paul J. Otterstedt (Reg. 37,411)
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